



## Gulf of Mexico Harmful Algal Bloom Bulletin

14 November 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: November 10, 2005

**Conditions:** Harmful algal blooms have been identified in patches in Dixie, Levy, Sarasota, and Lee Counties. Patchy very low impacts are possible in Dixie, Levy, Lee, and Sarasota counties today through Tuesday, with patchy low to moderate impacts possible Wednesday and Thursday. A second bloom has been identified in patches in Okaloosa, Bay, and Franklin Counties. Patchy very low to low impacts are possible in Okaloosa County, with patchy very low to moderate impacts possible in Bay and Franklin Counties today through Thursday.

**Analysis:** The bloom persists offshore and in patches along the south-west Florida coast. Recent sampling results indicate an offshore bloom extending from Manatee to Lee County. High concentrations of *K. brevis* were recorded offshore of Manatee and Lee Counties (FWRI, 11/7-9). Low to medium *K. brevis* concentrations were reported at Boca Grande Pass (FWRI, 11/9). A high chlorophyll patch ( $>20\mu\text{g/L}$ ) extends alongshore from  $82^{\circ} 46' \text{W}$  to as far west as  $82^{\circ} 16' \text{W}$ . Sampling is recommended.

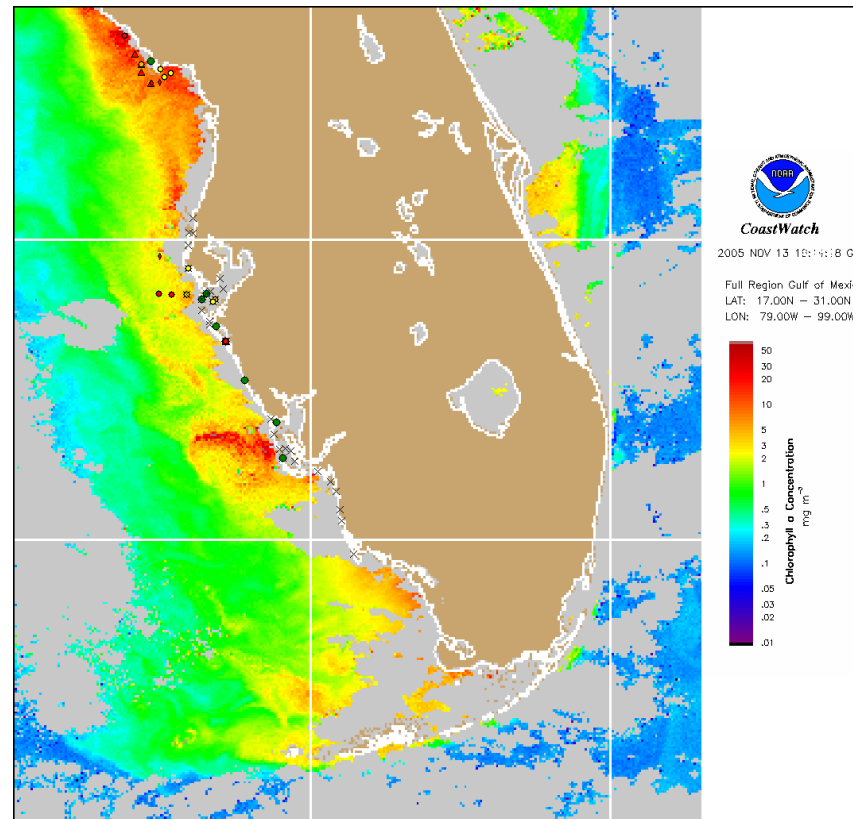
Bloom persists offshore of the Dixie/Levy County line. Imagery on 11/13 indicates high chlorophyll concentrations ( $>25\mu\text{g/L}$ ) around  $83^{\circ} 15' \text{W } 29^{\circ} 19' \text{N}$ . High samples were reported (FWRI, 11/7) at Seven Sisters Reef ( $83^{\circ} 15' \text{W } 29^{\circ} 22' \text{N}$ ).

Easterly winds through most of the week will continue to minimize impacts along the coast. Slight westerly movement is possible.

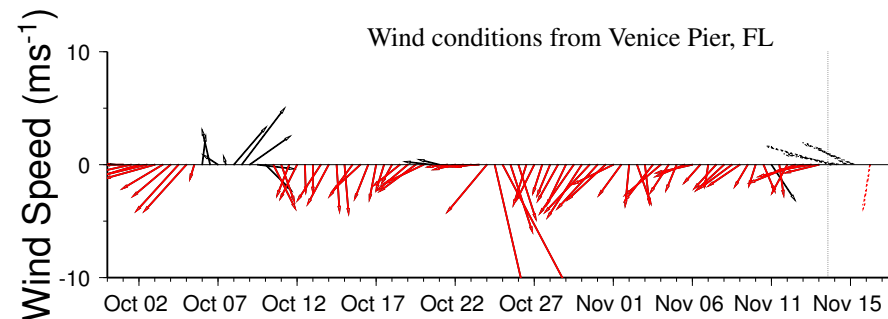
~Keller, Stolz

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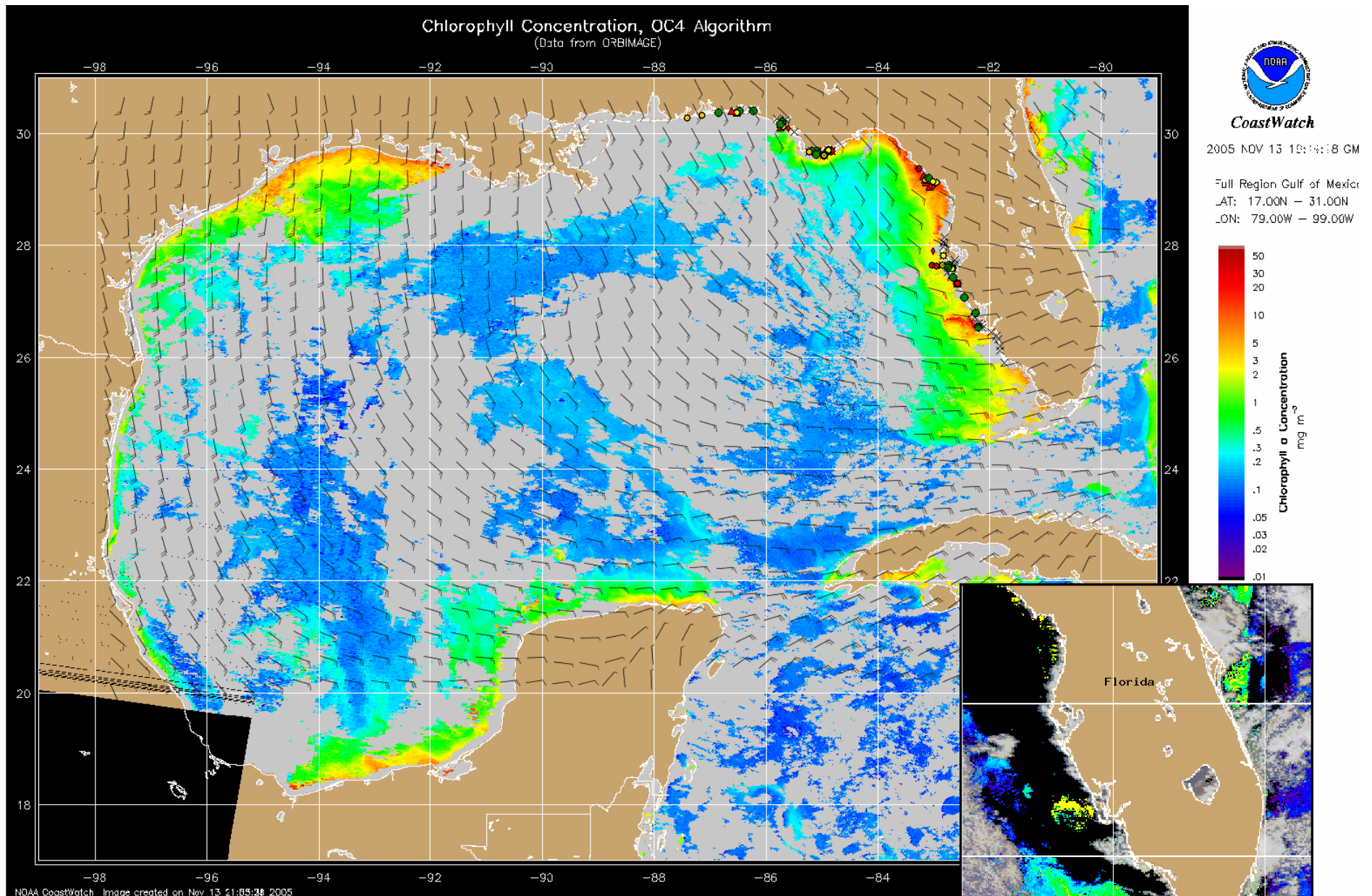


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from October 31, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

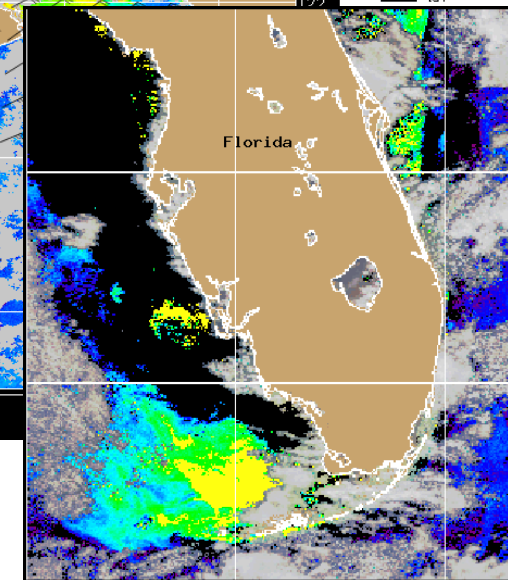


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: East winds today through Tuesday (10 knots, 5 m/s). Variable winds on Wednesday (5 knots, 3 m/s). Northeast winds on Thursday (15 knots, 8 m/s).



Chlorophyll concentration from satellite and forecast winds for November 15, 2005 12Z with cell concentration sampling data from October 31, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Blooms shown in red (see p. 1 analysis)